CE EN 12101-2:2003

Declaration of Performance

No. C-AOV-0402-CPR-SC0226-14

Em-Vent

1.Product Type: Unique identification code of the product-type	Em-Vent Natural smoke and heat exhaust ventilator
2.Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):	Em-Vent - for Batch Number see Product labeling
3.Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:	Dual purpose ventilator, intended for comfort ventilation as well as smoke and heat exhaust ventilation under fire conditions
4.Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):	Em-Vent Whitesales, Europa House Alfold Road, Cranleigh Surrey GU6 8NQ United Kingdom Email: sales@whitesales.co.uk
5.Contact Address: Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified on Article 12(2):	Not applicable
6. AVCP: System or systems of assessment and verification of constancy of performance (AVCP) of the construction product as set out in CPR, Annex V:	AVCP System 1
7.Notified body (hEN): In case of the declaration of performance (DoP) concerning a construction product covered by a harmonised standard:	Notified Body No. 0402 SP Technical Research Institute of Sweden Box 857 SE-501 15 Borås Sweden
8.Notified body (ETA): In case of the declaration of performance concerning a construction product for which a European Technical Assessment (ETA) has been issued:	Not applicable (see7)

9.Declared performance

Essential Characteristics	Performance	Harmonised Standard
Reaction to Fire: Top Plate Acrylic Polycarbonate Aluminium PIR Insulation Steel **Reaction to Fire: Upstand** PVC Wood	 E E A1 F A1 E D-s2,d0	EN 12101-2:2003, 7.5.2.1
Resistance to Heat	B 300	EN 12101-2:2003 Annex G
Snow Load	SL 500 (max 1300 x 2300mm) SL1000 (max 1000x2000mm)	EN 12101-2:2003 Annex D-E
Wind Load	**WL 1500**	EN 12101-2:2003 Annex F
Low Ambient Temperature	**T (-15)**	EN 12101-2:2003 Annex D-E
Reliability	**Re 1000**	EN 12101-2:2003 Annex C
Aerodynamic Free Area	**See tables 1 & 2** **For sizes not covered by tables C_v = 0.40**	EN 12101-2:2003 Annex H
Dangerous Substances	**No dangerous substances above the acceptable limits**	n/a

10.Declaration

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance (DoP) is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Steve Knight
Technical Manager

Table 1 Vertical Curb, PVC 150V upstand, 160° opening angle

C	B		AERODYNAMIC VALUES				SNOW-LOAD
ROOF OPENING	**DAYLIGHT**	**GEOMETRIC**					
PVC150V	**SIZE**	**AREA**	**STANDARD**		**WITH SPOILERS**		
mm	**mm**	**A_v**	**C_v**	**A_a**	**C_v**	**A_a**	**N/m²**
1000 x 1000	1000x 1000	1,00	0,55	0,55	0,61	0,61	1000
1050 x 1050	1050x 1050	1,10	0,55	0,61	0,61	0,67	1000
1100 x 1100	1100x 1100	1,21	0,55	0,67	0,61	0,74	1000
1200 x 1200	1200x 1200	1,44	0,55	0,79	0,61	0,88	1000
1300 x 1300	1300x 1300	1,69	0,55	0,93	0,61	1,03	1000
1000 x 1300	1000x 1300	1,30	0,55	0,72	0,61	0,79	1000
1000 x 1500	1000x 1500	1,50	0,54	0,81	0,61	0,92	1000
1000 x 1600	1000x 1600	1,60	0,53	0,85	0,61	0,98	1000
1000 x 1900	1000x 1900	1,90	0,52	0,99	0,62	1,18	1000
1000 x 2000	1000x 2000	2,00	0,52	1,04	0,62	1,24	1000
1000 x 2200	1000x 2200	2,20	0,52	1,14	0,62	1,36	500
1000 x 2300	1000x 2300	2,30	0,52	1,20	0,62	1,43	500
1050 x 1650	1050x 1650	1,73	0,52	0,90	0,61	1,06	1000
1050 x 2250	1050x 2250	2,36	0,51	1,20	0,62	1,46	500
1100 x 1400	1100x 1400	1,54	0,53	0,82	0,61	0,94	1000
1100 x 1700	1100x 1700	1,87	0,53	0,99	0,62	1,16	1000
1100 x 2300	1100x 2300	2,53	0,52	1,32	0,62	1,57	500
1200 x 1400	1200x 1400	1,68	0,52	0,87	0,61	1,02	1000
1200 x 1500	1200x 1500	1,80	0,54	0,97	0,61	1,10	1000
1200 x 1800	1200x 1800	2,16	0,53	1,14	0,61	1,32	500
1200 x 2100	1200x 2100	2,52	0,52	1,31	0,62	1,56	500
1300 x 1600	1300x 1600	2,08	0,53	1,10	0,61	1,27	500
1300 x 1900	1300x 1900	2,47	0,53	1,31	0,62	1,53	500
1300 x 2000	1300x 2000	2,60	0,51	1,33	0,62	1,61	500
1300 x 2200	1300x 2200	2,86	0,51	1,46	0,62	1,77	500
1300 x 2300	1300x 2300	2,99	0,51	1,52	0,62	1,85	500

Table 2 Splayed Curb, PVC 300S upstand, 160° opening angle

C	B		AERODYNAMIC VALUES				SNOW-LOAD
ROOF OPENING	DAYLIGHT	GEOMETRIC					
PVC300S	SIZE	AREA	STANDARD		WITH SPOILERS		
mm	mm	A_v	C_v	A_a	C_v	A_a	N/m²
1200 x 1200	1000 x 1000	1,44	0,47	0,68	0,57	0,82	1000
1250 x 1250	1050 x 1050	1,5625	0,47	0,73	0,57	0,89	1000
1300 x 1300	1100 x 1100	1,69	0,48	0,81	0,58	0,98	1000
1400 x 1400	1200 x 1200	1,96	0,49	0,96	0,59	1,16	1000
1500 x 1500	1300 x 1300	2,25	0,49	1,10	0,59	1,33	1000
1200 x 1500	1000 x 1300	1,8	0,49	0,88	0,59	1,06	1000
1200 x 1700	1000 x 1500	2,04	0,50	1,02	0,60	1,22	1000
1200 x 1800	1000 x 1600	2,16	0,50	1,08	0,60	1,30	1000
1200 x 2100	1000 x 1900	2,52	0,51	1,29	0,61	1,54	1000
1200 x 2200	1000 x 2000	2,64	0,51	1,35	0,61	1,61	1000
1200 x 2400	1000 x 2200	2,88	0,51	1,47	0,62	1,79	500
1200 x 2500	1000 x 2300	3	0,52	1,56	0,63	1,89	500
1250 x 1850	1050 x 1650	2,31	0,50	1,16	0,60	1,39	1000
1250 x 2450	1050 x 2250	3,06	0,51	1,56	0,62	1,90	500
1300 x 1600	1100 x 1400	2,08	0,50	1,04	0,60	1,25	1000
1300 x 1900	1100 x 1700	2,47	0,50	1,24	0,60	1,48	1000
1300 x 2500	1100 x 2300	3,25	0,52	1,69	0,63	2,05	500
1400 x 1600	1200 x 1400	2,24	0,51	1,14	0,61	1,37	1000
1400 x 1700	1200 x 1500	2,38	0,51	1,21	0,61	1,45	1000
1400 x 2000	1200 x 1800	2,8	0,51	1,43	0,62	1,74	500
1400 x 2300	1200 x 2100	3,22	0,52	1,67	0,63	2,03	500
1500 x 1800	1300 x 1600	2,7	0,53	1,43	0,64	1,73	500
1500 x 2100	1300 x 1900	3,15	0,51	1,61	0,62	1,95	500
1500 x 2200	1300 x 2000	3,3	0,52	1,72	0,63	2,08	500
1500 x 2400	1300 x 2200	3,6	0,53	1,91	0,64	2,30	500
1500 x 2500	1300 x 2300	3,75	0,54	2,03	0,65	2,44	500